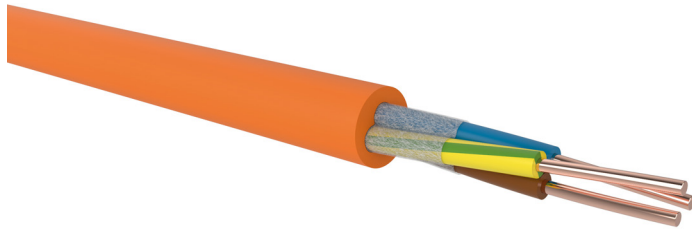


(N)HXH FE180/E30 (VDE)

SI/FRNC energy cable with insulation integrity FE180 and circuit integrity E30

DESIGN



- 1 | Copper conductor, round solid (RE) resp. round stranded (RM)
- 2 | Core insulation (silicone rubber)
- 3 | Inner covering (halogen-free fixation tape)
- 4 | Sheath (halogen-free polymer compound orange)

APPLICATION

Suitable to protect people and technical building equipment in the event of fire if circuit integrity is required (circuit integrity is only maintained if these cables are installed with specified supporting elements). The cable is not UV-resistant.

TECHNICAL DATA



Standard:
adapted to DIN VDE 0266



Rated voltage:
0.6/1 kV (U₀/U)



Test voltage:
4 kV / 50 Hz



Temperature range:
laying temperature: min. -5 °C
operating temperature: -50 °C up to 90 °C
conductor temperature: max. 90 °C
short circuit temperature: max. 250 °C/5 s



Bending radius (min.):
15 x Ø of cable (single core)
12 x Ø of cable (multi core)



Core identification:
HD 308 S2



Fire properties:
EN 60332-1-2: flame retardant
EN 60754-1 and 2: halogen-free; non-corrosive combustion gases
EN 60332-3-22 and 24: reduced flame propagation
EN 61034-2: low smoke emission
IEC 60331-21, DIN VDE 0472-814: insulation integrity FE 180
DIN 4102-12: circuit integrity E30



Certificate:
VDE Germany

Number of cores x nominal cross-section (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter (mm) appr.	Total weight (kg/km) appr.	Standard lengths/packing (m)
(N)HXH FE180/E30 (VDE)					
2 x 1.5 RE	12.1	29	8.1	110	1000 D
3 x 1.5 RE	12.1	24	8.6	125	1000 D
4 x 1.5 RE	12.1	24	9.3	140	1000 D
5 x 1.5 RE	12.1	24	10.1	175	1000 D
7 x 1.5 RE	12.1	14	11.0	220	1000 D
10 x 1.5 RE	12.1	13	13.9	295	500 D
12 x 1.5 RE	12.1	12	14.5	345	500 D
14 x 1.5 RE	12.1	11	15.2	385	500 D
16 x 1.5 RE	12.1	11	16.5	460	500 D
19 x 1.5 RE	12.1	11	16.9	500	500 D
24 x 1.5 RE	12.1	11	20.0	635	500 D

(N)HXH FE180/E30 (VDE)

SI/FRNC energy cable with insulation integrity FE180 and circuit integrity E30

Number of cores x nominal cross-section (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter (mm) appr.	Total weight (kg/km) appr.	Standard lengths/packing (m)
(N)HXH FE180/E30 (VDE)					
30 x 1.5 RE	12.1	9	21.2	750	500 D
40 x 1.5 RE	12.1	8	23.5	980	500 D
2 x 2.5 RE	7.41	38	8.9	140	1000 D
5 x 2.5 RE	7.41	32	11.2	235	1000 D
7 x 2.5 RE	7.41	20	12.4	310	1000 D
10 x 2.5 RE	7.41	18	15.6	415	500 D
12 x 2.5 RE	7.41	17	15.9	475	500 D
14 x 2.5 RE	7.41	16	17.0	545	500 D
19 x 2.5 RE	7.41	16	19.1	725	500 D
24 x 2.5 RE	7.41	13	22.6	910	500 D
30 x 2.5 RE	7.41	12	23.9	1090	500 D
40 x 2.5 RE	7.41	11	26.3	1410	500 D
2 x 4 RE	4.61	51	10.5	195	1000 D
3 x 4 RE	4.61	42	11.1	240	1000 D
4 x 4 RE	4.61	42	12.3	295	1000 D
5 x 4 RE	4.61	42	13.5	355	1000 D
7 x 4 RE	4.61	28	14.7	450	500 D
10 x 4 RE	4.61	25	18.9	630	500 D
12 x 4 RE	4.61	23	19.5	730	500 D
2 x 6 RE	3.08	64	11.5	250	500 D
3 x 6 RE	3.08	53	12.4	315	500 D
4 x 6 RE	3.08	53	13.5	390	500 D
5 x 6 RE	3.08	53	14.8	470	500 D
7 x 6 RE	3.08	53	18.2	654	500 D
2 x 10 RE	1.83	86	13.2	360	500 D
3 x 10 RE	1.83	74	14.0	455	500 D
4 x 10 RE	1.83	74	15.4	570	500 D
5 x 10 RE	1.83	74	16.9	690	500 D
7 x 10 RE	3.08	73	20.6	965	500 D
1 x 16 RE	1.15	131	11.0	230	500 D, 1000 D
2 x 16 RE	1.15	110	15.4	520	500 D
3 x 16 RE	1.15	98	17.9	697	500 D
3 x 16 RM	1.15	98	16.4	670	500 D
4 x 16 RM	1.15	98	18.3	845	500 D
5 x 16 RE	1.15	98	20.1	1040	500 D
1 x 25 RM	0.727	177	11.2	340	500 D, 1000 D
3 x 25 RM	0.727	133	22.2	1090	500 D
3 x 25 + 16 RM/RM	0.727/1.15	133	24.5	1280	500 D
4 x 25 RM	0.727	133	24.5	1400	500 D
5 x 25 RM	0.727	133	27.2	1740	500 D

(N)HXH FE180/E30 (VDE)

SI/FRNC energy cable with insulation integrity FE180 and circuit integrity E30

Number of cores x nominal cross-section (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter (mm) appr.	Total weight (kg/km) appr.	Standard lengths/packing (m)
(N)HXH FE180/E30 (VDE)					
1 x 35 RM	0.524	217	12.0	415	500 D, 1000 D
3 x 35 RM	0.524	162	23.9	1310	500 D
4 x 35 RM	0.524	162	26.6	1720	500 D
5 x 35 RM	0.524	162	29.5	2000	500 D
1 x 50 RM	0.387	265	13.9	570	500 D, 1000 D
3 x 50 RM	0.387	197	27.8	1780	500 D
3 x 50 + 25 RM/RM	0.387/0.727	197	31.0	2120	500 D
4 x 50 RM	0.387	197	31.0	2340	500 D
5 x 50 RM	0.387	197	34.4	2910	500 D
1 x 70 RM	0.268	336	15.6	765	500 D, 1000 D
3 x 70 RM	0.268	250	31.6	2430	500 D
3 x 70 + 35 RM/RM	0.268/0.524	250	35.1	2840	500 D
4 x 70 RM	0.268	250	35.1	3200	500 D
5 x 70 RM	0.268	250	38.8	3950	500 D
1 x 95 RM	0.193	415	17.7	1020	500 D, 1000 D
3 x 95 RM	0.193	308	36.4	3230	500 D
3 x 95 + 50 RM/RM	0.193/0.387	308	40.5	3830	500 D
4 x 95 RM	0.193	308	40.5	4250	500 D
1 x 120 RM	0.153	485	19.4	1270	500 D, 1000 D
3 x 120 RM	0.153	359	39.7	4000	500 D, 1000 D
3 x 120 + 70 RM/RM	0.153/0.268	359	44.0	4780	500 D, 1000 D
4 x 120 RM	0.153	359	44.0	5230	500 D
1 x 150 RM	0.124	557	21.2	1540	500 D, 1000 D
4 x 150 RM	0.124	412	48.6	6390	500 D
1 x 185 RM	0.0991	507	26.4	2160	500 D, 1000 D
3 x 185 + 95 RM/RM	0.0991/0.193	480	52.9	8500	500 D
4 x 185 RM	0.0991	480	59.8	9704	500 D
1 x 240 RM	0.0754	604	26.9	2540	500 D, 1000 D
3 x 240 + 120 RM/RM	0.0754/0.153	565	58.8	11000	500 D
1 x 300 RM	0.0601	697	30.0	3300	500 D, 1000 D

Technical changes reserved. All figures are therefore without guarantee.

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